	Application No.	Applicant(s)
Notice of Allowability	10/602,932	OKUDA ET AL.
	Examiner	Art Unit
	Eric S. McCall	2855
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate common of the	n this application. If not included unication will be mailed in due course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>the application as or</u>	ginally filed on June 24, 200	<u>3</u> .
2. The allowed claim(s) is/are <u>1-13</u> .		
3. $\boxtimes$ The drawings filed on <u>24 June 2003</u> are accepted by the E	Examiner.	
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority u <ul> <li>a)  All</li> <li>b)  Some*</li> <li>c)  None</li> <li>of the:</li> </ul> </li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Applicatio	on No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give		
<ol> <li>CORRECTED DRAWINGS ( as "replacement sheets") mu</li> <li>(a) including changes required by the Notice of Draftsper</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in</li> </ol>	son's Patent Drawing Review  -  's Amendment / Comment o  1.84(c)) should be written on t	r in the Office action of he drawings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
<ul> <li>Attachment(s)</li> <li>1.  Notice of References Cited (PTO-892)</li> <li>2.  Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3.  Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date</li></ul>	6. Interview S Paper No. 08), 7. Examiner's	nformal Patent Application (PTO-152) summary (PTO-413), /Mail Date Amendment/Comment s Statement of Reasons for Allowance

## <u>APPARATUS FOR DETECTING COMPRESSION TOP</u> <u>DEAD CENTER OF AN ENGINE</u>

## REASONS FOR ALLOWANCE

The following is an Examiner's statement of reasons for allowance:

Claim 1 has been found to be allowable over the prior art because the prior art fails to teach or suggest an apparatus for detecting a compression top dead center of an engine, comprising:

a controller that detects the top dead center phase immediately preceding a rise in the exhaust pressure detected by the exhaust pressure detection means as the compression top dead center,

in combination with the external driving means and exhaust pressure detection means as claimed.

Claim 4 has been found to be allowable over the prior art because the prior art fails to teach or suggest a method for detecting a compression top dead center of an engine, comprising:

detecting the top dead center phase that immediately precedes a rise in the detected exhaust pressure as the compression top dead center,

Art Unit: 2855

in combination with the external driving portion and the exhaust pressure detecting as

claimed.

Claim 8 has been found to be allowable over the prior art because the prior art fails to

teach or suggest an apparatus for detecting a compression top dead center of an engine,

comprising:

a controller that receives a signal from the exhaust pressure sensor and detects from the

top dead center phases the compression top dead center based on a change in the exhaust

pressure detected by the exhaust pressure sensor,

in combination with the electric motor and exhaust pressure sensor as claimed.

All of the remaining claims have been found to be allowable over the prior art due to said

claims' dependency on one of the above claims.

**CONCLUSION** 

Any comments considered necessary by the Applicant must be submitted no later than

the payment of the issue fee and, to avoid processing delays, should preferably accompany the

issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Application/Control Number: 10/602,932

Art Unit: 2855

Page 4

Any inquiry concerning this communication or earlier communications from the

Examiner should be directed to Eric S. McCall whose telephone number is (571) 272-2183.

The fax phone number for the organization where this application or proceeding is

assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eric S. McCall Primary Examiner

Art Unit 2855 Oct. 21, 2004